CLAIMS:

1. (Currently amended) A method of promoting neurogenesis comprising

the step of:

administering a therapeutic amount of a therapeutic compound for increasing

levels of cGMP to a patient in need of neurogenesis promotion post stroke wherein

increased levels of cGMP promote neurogenesis.

2. (Currently amended) A compound for promoting neurogenesis

comprising an effective amount of a therapeutic compound that increases levels of

cGMP, sufficient to promote neurogenesis, wherein increased levels of cGMP

promote neurogenesis.

3. (Currently amended) A neurogenesis promoter comprising a

therapeutic compound in a pharmaceutically acceptable carrier that increases levels

of cGMP, said therapeutic compound capable of promoting neurogenesis wherein

increased levels of cGMP promote neurogenesis. in a pharmaceutically acceptable

carrier.

4. (Previously presented) The neurogenesis promoter according to claim

3, wherein said therapeutic compound augments nitric oxide in a tissue.

5. (Currently amended) The neurogenesis promoter according to claim 4,

wherein said nitric oxide donor is selected from the group consisting essentially of

phosphodiesterase inhibitors, L-arginine, sildenafil, and atorvastatin.

6. (Currently Amended) A method of augmenting the production of

neurons by administering an effective amount of a therapeutic compound that

increases levels of cGMP, nitric-oxide donor to a site in need of augmentation,

wherein increased levels of cGMP augment the production of neurons.

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7. (Currently amended) A method of increasing neurological function by administering an effective amount of a therapeutic compound that increases levels of cGMP to a patient in need of increased neurological function after neurological damage has occurred, whereby the increased levels of cGMP create neurogenesis, thereby increasing neurological function.

- 8. (Currently amended) A method of increasing cognitive and neurological function by administering an effective amount of a therapeutic compound <u>for that increasing increases</u> levels of cGMP to a patient in need of increased cognitive and neurological function after neurological and cognitive damage has occurred, <u>whereby the increased levels of cGMP create neurogenesis</u>, thereby increasing neurological function.
- 9. (Currently amended) A method of promoting neurogenesis comprising the step of <u>administering an effective amount of a compound for increasing levels of cGMP in a patient in need of neurogenesis promotion, wherein increased levels of cGMP promote neurogenesis.</u>
- 10. (Currently amended) A method of augmenting the production of neurons by <u>administering an effective amount of a compound for increasing cGMP levels at a site in need of augmentation, wherein increased levels of cGMP augment the production of neurons.</u>
- 11. (Currently amended) A method of increasing neurological function by administering an effective amount of a compound for increasing levels of cGMP in a patient in need of increased neurological function, wherein increased levels of cGMP increase neurological function.
- 12. (Currently amended) A method of increasing cognitive and neurological function by administering an effective amount of a compound for

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increasing levels of cGMP in a patient in need of increased cognitive and neurological function, wherein increased levels of cGMP promote neurogenesis, thereby increasing cognitive and neurological function.

13. (Currently amended) A compound for increasing *in vivo* levels cGMP for use in generating neurons, wherein increased levels of cGMP promote neurogenesis.